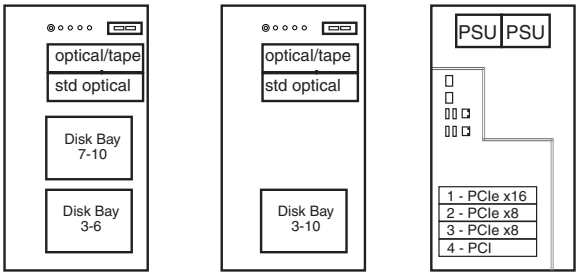
ThinkServer™ TS430 Redundant PSU (0441) - TopSeller

Type-model	Slot x bay	Processor(s)	GHz	Cores / Threads	Memory DIMMs	Disk size	Disk bays	Disk Controller	Disk type	RAID Int	SATA optical	System mgmt	Diagnostics (DIT)	TPM	Power Supply
0441-11U	4x10	Xeon E3-1220	3.1	4C/4T	1x4GB	3.5"	8 x Hot-swap	9240-8i v2	SATA/SAS	0/1/10	DVD±RW	IPMI	None	TPM	1x 450W
0441-12U	4x10	Xeon E3-1240	3.3	4C/8T	1x4GB	2.5"	8 x Hot-swap	9240-8i v2	SAS	0/1/10	DVD±RW	KVM	None	TPM	1x 450W
0441-13U	4x6	Core i3-2100	3.1	2C/4T	1x2GB	3.5"	4 x Hot-swap	Intel PCH	SATA	0/1/10	DVD±RW	IPMI	None	TPM	1x 450W
0441-14U	4x6	Xeon E3-1230	3.2	4C/8T	1x4GB	3.5"	4 x Hot-swap	Intel PCH	SATA	0/1/10	DVD±RW	IPMI	None	TPM	1x 450W
0441-15U	4x10	Xeon E3-1270	3.4	4C/8T	1x4GB	2.5"	8 x Hot-swap	9240-8i v2	SAS	0/1/10	DVD±RW	KVM	None	TPM	1x 450W
0441-16U	4x10	Xeon E3-1240	3.3	4C/8T	1x4GB	3.5"	8 x Hot-swap	9240-8i v2	SATA/SAS	0/1/10	DVD±RW	KVM	None	TPM	1x 450W

- ***Highly Reliable: redundant PSU, ECC memory, and enterprise-class SAS & SATA choices***
- ***Highly Manageable: enhanced remote manageability with IPMI 2.0 BMC & optional KVM***
- ***Room to Grow: highly modular hot-swap SATA/SAS design – supports up to 8 hard drives (selected models)***
- ***3-year limited warranty***[1]
- ***Part of the US TopSeller™ Program***

Processor	Up to one processor, one processor standard, **Intel® Core™ i3-2100 processor (2C/4T, 3.1GHz, 3MB Cache)**, integrated Intel HD Graphics, DDR3 memory controller (up to 1333MHz) **Intel Xeon® E3-1220 processor (4C/4T, 3.1GHz, 8MB Cache)**, Turbo Boost 2.0 (up to 3.4GHz), DDR3 memory controller (up to 1333MHz) **Intel Xeon E3-1230 processor (4C/8T, 3.2GHz, 8MB Cache)**, Turbo Boost 2.0 (up to 3.6GHz), DDR3 memory controller (up to 1333MHz) **Intel Xeon E3-1240 processor (4C/8T, 3.3GHz, 8MB Cache)**, Turbo Boost 2.0 (up to 3.7GHz), DDR3 memory controller (up to 1333MHz) **Intel Xeon E3-1270 processor (4C/8T, 3.4GHz, 8MB Cache)**, Turbo Boost 2.0 (up to 3.8GHz), DDR3 memory controller (up to 1333MHz)
Implementation	One LGA1155 socket
Memory	16GB max, **UDIMM**, **PC3-10600 1333MHz DDR3**, **ECC**, four 240-pin DIMM sockets
Additional memory disclaimers	• Actual memory operating speed is the lowest installed speed, dependent on processor memory controller speed and installed memory speed
Graphics	Onboard Aspeed AST2150 graphics/management processor, one VGA DB-15 on rear; Maximum resolution: 1600x1200@60Hz
Disk bays	*Some:* Four 3.5" hot-swap (HS) SATA disk bays *Some:* Eight 3.5" hot-swap (HS) SATA/SAS disk bays *Some:* Eight 2.5" hot-swap (HS) SAS disk bays
Disk controller	*Intel PCH:* Serial ATA, SATA 3.0Gb/s, integrated in chipset, RAID[8] 0, 1, 10 support *9240-8i v2:* ThinkServer RAID 9240-8i v2 RAID adapter, PCIe bus, SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1, 10 support
Tape drive	Supports optional tape drive via internal USB 2.0 connector
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
Diskette	None (use USB port)
Chipset	**Intel C202 Chipset**, Platform Controller Hub [PCH] (Slot 1-2, ethernet MAC, and USB)
Ethernet	Two Gigabit Ethernet ports, Intel 82574L and 82579LM
Extender card	None
Front ports	Two USB 2.0
Rear ports	Four USB 2.0, one serial (9-pin), two ethernet (RJ-45, one port is shared with system management), one analog VGA DB-15 connector
Diagnostics	System status LEDs on front; *DIT model(s):* add-on Doctor Inside Technology (DIT) module for advanced diagnostics
Systems mgmt	Onboard Aspeed AST2150 graphics/management processor, IPMI 2.0-compliant baseboard management controller (BMC); *KVM model(s):* add-on KVM card for KVM functions
Security chip	No onboard TPM chip; *TPM model(s):* additional Nuvoton WPCT210 add-on card for TPM function, TCG 1.2-compliant
Prerequisites	Monitor, SATA/SAS disk, OS
Keyboard	None (use USB port)
Mouse	None (use USB port)
Power supply	One or two 450 watts standard, two maximum, rear access, hot-swap, 80 PLUS® Gold qualified, redundant with two power supplies
Mechanical	Tower, business black color, metal case
Dimension	W x H x D = 7.68"/195mm x 16.9"/430mm x 23.4"/595mm
System weight	61.7 lb (28kg) max configuration
Tool-less	Side cover removal, disk and optical drive removal, system fan removal
Rack mount	Rack-mountable to 5U
Max internal capacity	*4 x 3.5" SATA (DC/HS):* 8.0TB with four 2TB 3.5" SATA disks *8 x 3.5" SATA (HS):* 16.0TB with eight 2TB 3.5" SATA disks *4 x 3.5" SAS (HS):* 2.4TB with four 600GB 3.5" SAS disks *8 x 3.5" SAS (HS):* 4.8TB with eight 600GB 3.5" SAS disks *8 x 2.5" SAS (HS):* 4.8TB with eight 600GB 2.5" SAS disks
Limited warranty	3-year parts and labor; more ThinkPlus™ information see S-TOR sheet
Accessories	For more accessories, see O-TOR sheet

Front - *3.5" disk bay* **Front -** *2.5" disk bay* **Rear**



3.5" disk bay models:
Bay 1 5.25", 1.6" high, external, open (optical/tape)
Bay 2 5.25", 1.6" high, external, std optical
Bay 3 3.5", 1" high, external, for disk
Bay 4 3.5", 1" high, external, for disk
Bay 5 3.5", 1" high, external, for disk
Bay 6 3.5", 1" high, external, for disk
Bay 7-10 are available on Eight 3.5" disk bay models:
Bay 7 3.5", 1" high, external, for disk
Bay 8 3.5", 1" high, external, for disk
Bay 9 3.5", 1" high, external, for disk
Bay 10 3.5", 1" high, external, for disk

2.5" disk bay models:
Bay 1 5.25", 1.6" high, external, open (optical/tape)
Bay 2 5.25", 1.6" high, external, std optical
Bay 3 2.5", 0.6" high, external, for disk
Bay 4 2.5", 0.6" high, external, for disk
Bay 5 2.5", 0.6" high, external, for disk
Bay 6 2.5", 0.6" high, external, for disk
Bay 7 2.5", 0.6" high, external, for disk
Bay 8 2.5", 0.6" high, external, for disk
Bay 9 2.5", 0.6" high, external, for disk
Bay 10 2.5", 0.6" high, external, for disk

Slot 1 half-length, full-height, 32-bit PCI 2.3
Slot 2 half-length, full-height, PCI Express 2.0 x8*
Slot 3 half-length, full-height, PCI Express 2.0 x8
Slot 4 half-length, full-height, PCI Express 2.0 x16** (near CPU)
* x4 electrical
** x8 electrical

Software Management Tools

- ThinkServer EasyStartup
- ThinkServer EasyManage

Security

- Security chip (selected models, see information on left)
- Administrator password
- User password
- Front panel key lock
- Boot sequence control
- Boot without keyboard, mouse, diskette
- Serial port I/O control
- USB port disablement (all)

RoHS-compliant

See footnotes for important warranty information
US model(s) announced August 23, 2011

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